CONTRACT NO. 62387

CODE NO. PAY ITEM	1017	URBAN NHF BRF NHF			80% FED/13.34% 80% FED/13.34% STATE/6.66% PROSPECT HTS. PROSPECT HTS./3.33% MT. PROSPECT			100% PROSPECT HTS. FIRE 100% MT. PROTECTION DISTRICT PROSPECT				50% STATE/50% PROSPECT HTS.					
	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE IL 21 OVER DES PLAINES RIVER		TRAFFIC SIGNALS INTERCONNECT Y031-1F	TRAFFIC SIGNALS IL	TRAFFIC SIGNALS IL 21/SANDERS RD Y031-1F	TRAFFIC SIGNALS IL 21/APPLE DRIVE Y031-1F	TRAFFIC SIGNALS US 45/ SEMINOLE LANE Y031-1F	TRAFFIC SIGNALS EVP EQUIPMENT IL 21/APPLE DRIVE Y031-3D	TRAFFIC SIGNALS EVP EQUIPMENT IL 21/US 45 Y031-3D	TRAFFIC SIGNALS EVP EQUIPMENT US 45/SEMINOLE LANE Y031-3D	NEW SIDEWALK	STORM SEWER Y060	NEW SIDEWALK	WATERM
6400820 FIBE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX 69/00/00 GEOCOMPOSITE WALL ORAIN 50100945 PIPE DRAINS 12"	EACH Sa yo	12.5	0000 ZA		Y030-1E_	1031 11	1031 11	1031 11	1031 11	1031 11	1031 30	1031 30	1031 30	3111111	1000	3111-16	Y060
60100945 PIPE DRAINS 12"	FOOT	/25 44.5	44.5	125	1												
60109510 PIPE UNDERDRAINS, FABRIC LINED TRENCH 4"	FOOT	947	94	7													-
60109580 PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	203		203	3												
0200805 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1															
60201340 CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	68	68	3													
SO204505 CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1															
60205040 CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2				***************************************											
SO207605 CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	4															
SO208240 CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	67	6														
60218400 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	31	3:														
60219540 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	- 2														
60221100 MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	11	1:														
SO223800 MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	24	24														
50247900 JUNCTION CHAMBER, SPECIAL	EACH	1		l l													
0250200 CATCH BASINS TO BE ADJUSTED	EACH	1		1													
SO255500 MANHOLES TO BE ADJUSTED	EACH	1															
50260100 INLETS TO BE ADJUSTED	EACH	2	2	2													
50265700 VALVE VAULTS TO BE ADJUSTED	EACH	1															-
0500040 REMOVING MANHOLES	EACH	11	1:														
0500050 REMOVING CATCH BASINS	EACH	39	39							AUR TON							
0500060 REMOVING INLETS	EACH	15	15	51													-
0600605 CONCRETE CURB, TYPE B	FOOT	858.0	858.0														
0603500 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	22,0	22.0														-
0603800 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6,12	FOOT	662.0	662.0						***************************************								
0604400 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	325.0	325.0														
0605000 COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	18,320.0	18,320.0														
0608600 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6,06	FOOT	146.5										3					
50610400 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	201.0	201.0														
50618300 CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	2,992	2,992							-							
50619200 CONCRETE MEDIAN, TYPE SB-6.06	SQ FT	2,691	2,69														
50619600 CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	4,287	4,287														
.0620000 CONCRETE MEDIAN, TYPE SB-6,24	SQ FT	4,823	4,823														1
0624600 CORRUGATED MEDIAN	SQ FT	157	157	The second secon											***************************************		-
50900140 TYPE B INLET BOX, STANDARD 609006	EACH	2	2														
60900515 CONCRETE THRUST BLOCKS	EACH	2															
3000000 STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	2412.5	2,412.5				1										

O NON-PARTICIPATING

* SPECIALTY ITEM

REVISIONS
NAME
DATE

SUMMARY OF QUANTITIES - 4

Rev. 4-14-08

STV Incorporated engineers/architects/scientists/construction monagers
Chicago, Illinois 60606

REVISIONS
SUMMARY OF QUANTITIES - 4

SCALE: NTS
DRAWN BY RDT
DATE 02/05/08
CHECKED BY GC

TOTAL SHEET NO. COUNTY SECTION 3268F-R-1 COOK 279 134 STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 62387

GENERAL NOTES

Fasteners shall be high strength bolts (AASHTO M164, Type 3 in unpainted areas and mechanically galvanized AASHTO M 164, Type 1 or 2 in painted areas). Bolts $^78''$ diameter, open holes 15₁₆ " diameter, unless otherwise noted.

Calculated weight of Structural Steel: AASHTO (M270 GR 50W) = 244,060 pounds

All structural steel shall be AASHTO M270 Grade 50W.

Field welding of construction accessories will not be permitted to beams.

Anchor bolts shall be set before bolting diaphragms over supports.

The main load carrying member components subjected to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of \(\frac{1}{8} \). Adjustments shall be made either by grinding the surface or by shimming the bearing. Two '8" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

Steel piles at abutments shall be driven in holes precored through the embankment according to Article 512.09(c) of the Standard Specifications.

The contractor shall drive 1 test pile, HP10x42, in a permanent location at each abutment and pier as directed by the Engineer before ordering the remainder of the piles.

AASHTO M 270 Grade 50W structural steel shall only be painted, at the ends of the beams, for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with an inorganic zinc rich primer per AASHTO M300, Type I. No field painting shall be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".

All construction joints shall be bonded.

All embedded and separate bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).

Slipforming of the parapets is not allowed.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

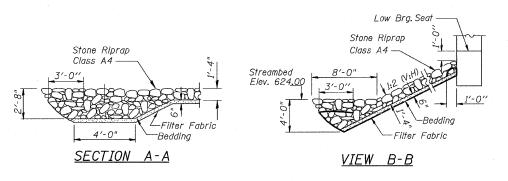
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

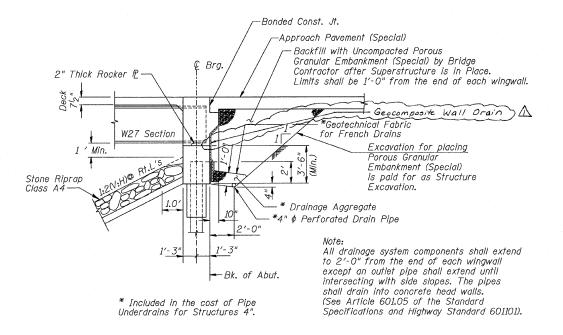
TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	SUB- STRUCTURE	SUPER STRUCTURE	TOTAL QUANTITIES
Porous Granular Embankment (Special)	CU YD	210		210
Stone Riprap, Class A4	SQ YD	1160		1160
Filter Fabric	SQ YD	1350		1350
Removal of Existing Structure	EACH		1	1
Structure Excavation	CU YD	229		229
Concrete Structures	CU YD	305.1		305.1
Concrete Superstructure	CU YD		480	480
Bridge Deck Grooving	SQ YD		1200	1200
Protective Coat	SQ YD		1620	1620
Erecting Structural Steel	LUMP SUM		1	1
Stud Shear Connectors	EACH		6210	6210
Reinforcement Bars, Epoxy Coated	POUND	25880	111200	137080
Aluminum Railing, Type L	FOOT		309	309
Furnishing Steel Piles HP10x42	F00T	2813		2813
Driving Piles	F00T	2813		2813
Pile Shoes	EACH	52		52
Test Pile Steel HP10x42	EACH		4	4
Temporary Sheet Piling	SQ FT	2780		2780
Name Plates	EACH		1	1
Anchor Bolts, 1"	EACH	80		80
Underwater Structure Excavation Protection - Location 1	EACH	1		1
Underwater Structure Excavation Protection - Location 2	EACH	1		1
Bar Splicers	EACH	114	857	971
Pipe Underdrains For Structures 4"	FOOT	203		203
Geocomposite Wall Drain	5Q YD		125	125

INDEX OF SHEETS

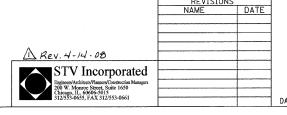
- 1 General Plan
- 2 General Notes & Bill of Material
- 3 Foundation Plan
- 4 Stage Construction Sections 5 Temporary Sheet Piling
- 6 Screed Plan
- 7 Deck Elevations
- 8 Deck Elevations 9 Deck Elevations
- 10 Deck Elevations
- 11 Deck Plan
- 12 Deck Cross Section
- 13 Parapet Elevation and B.O.M.
- 14 Framing Plan
- 15 Girder Elevation & Moment Table
- 16 Diaphragm / Splice Details
- 17 Bearing Details
- 18 North Abutment 19 South Abutment
- 20 Abutment Diaphragm Details
- 21 Pier 1 Elevation and Plan
- 22 Pier 2 Elevation and Plan
- 23 Type L Railing
- 24 Cantilever Forming Brackets
- 25 Bar Splicer Assembly
- 26 Temporary Concrete Barrier
- 26APile Base Sheet F-HP
- 27 Boring Logs
- 28 Boring Logs





SECTION THRU INTEGRAL ABUTMENT

Dimensions at Rt. L's



ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 21 MILWAUKEE AVE. OVER DES PLAINES RIVER F.A.P. ROUTE 374 SECTION 3268F-R-1 COOK COUNTY, SN 016-6566

GENERAL NOTES & B.O.M.

DESIGN BY: BTO DATE: 02/05/08 CHECKED BY: JAW CHECKED BY: JAN

DRAWN BY: BTO

Reinforcement bars in diaphragm are billed with superstructure on sheet 13 of 29.

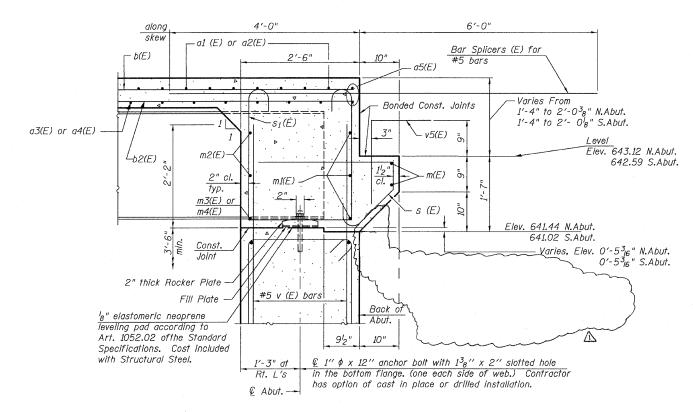
Concrete in diaphragm is included with Concrete Superstructure on sheet 13 of 29.

For details of bars s(E) & s1(E) see sheet 13 of 29. The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

For anchor bolt details see sheet 23 of 29. For Abutments see sheets 18 & 19 of 29.

Dimensions at right angles to abutment, except as shown. Cost included with Concrete Superstructure.

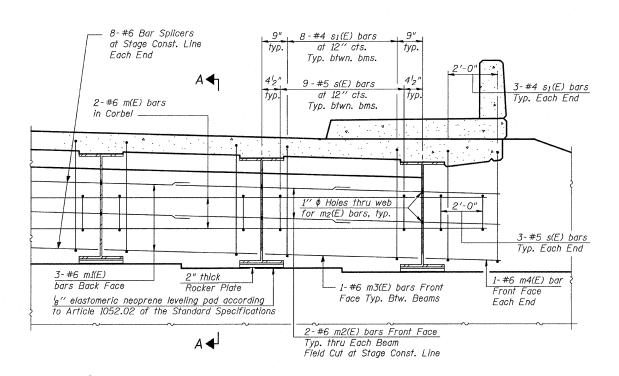
Minimum Bar Lap #6 bar = 2'-9"



SECTION A-A

* Included in the cost of Concrete Superstruuture

CONTRACT NO. 62387



DIAPHRAGM ELEVATION AT ABUTMENT



ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 21

MILWAUKEE AVE. OVER DES PLAINES RIVER F.A.P. ROUTE 374 SECTION 3268F-R-1 COOK COUNTY, SN 016-6566

ABUTMENT DIAPHRAGM DETAILS

DESIGN BY: AWH DRAWN BY: AWH
DATE: 02/05/08 CHECKED BY: JAW CHECKED BY: JAW